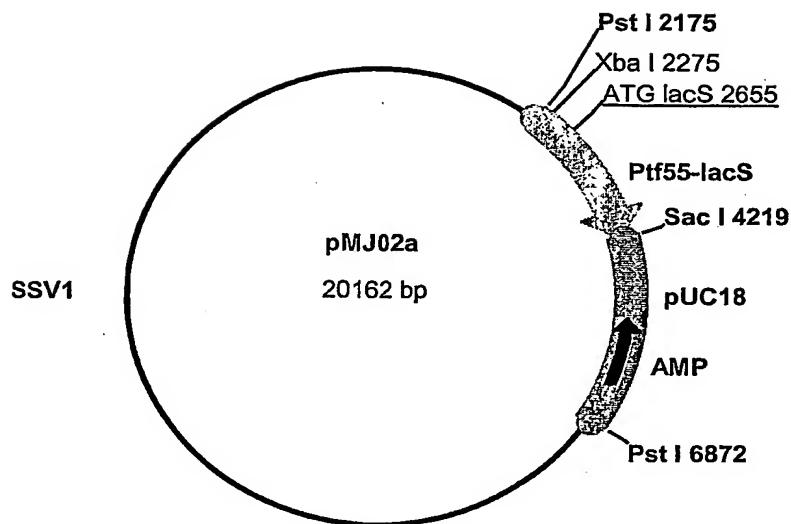


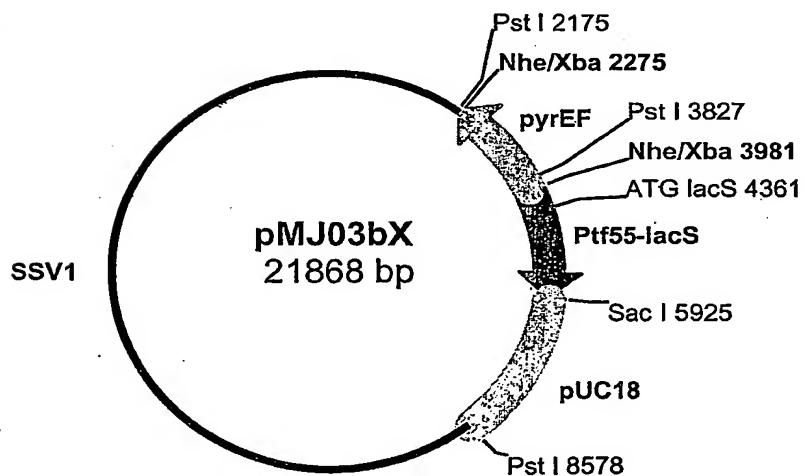
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Figure 1

A



B



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Figure 2

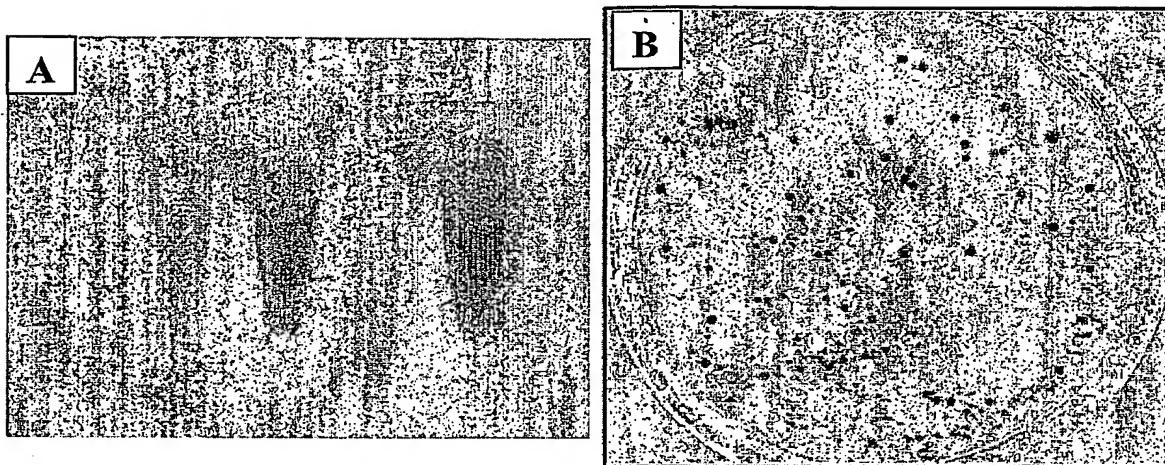
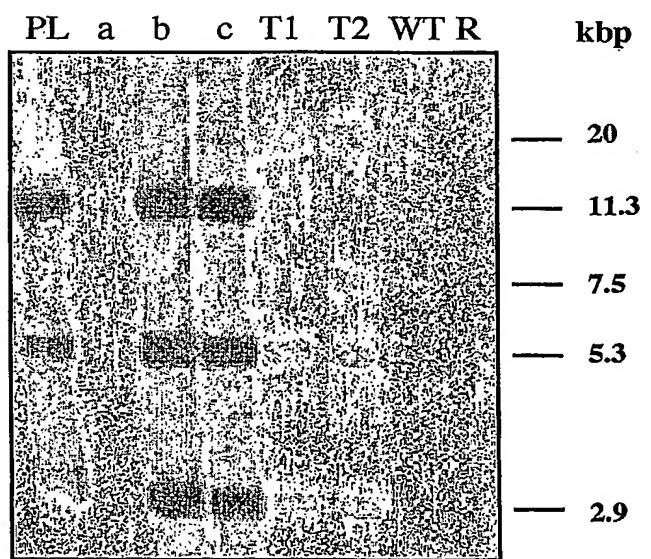


Figure 3



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Figure 4

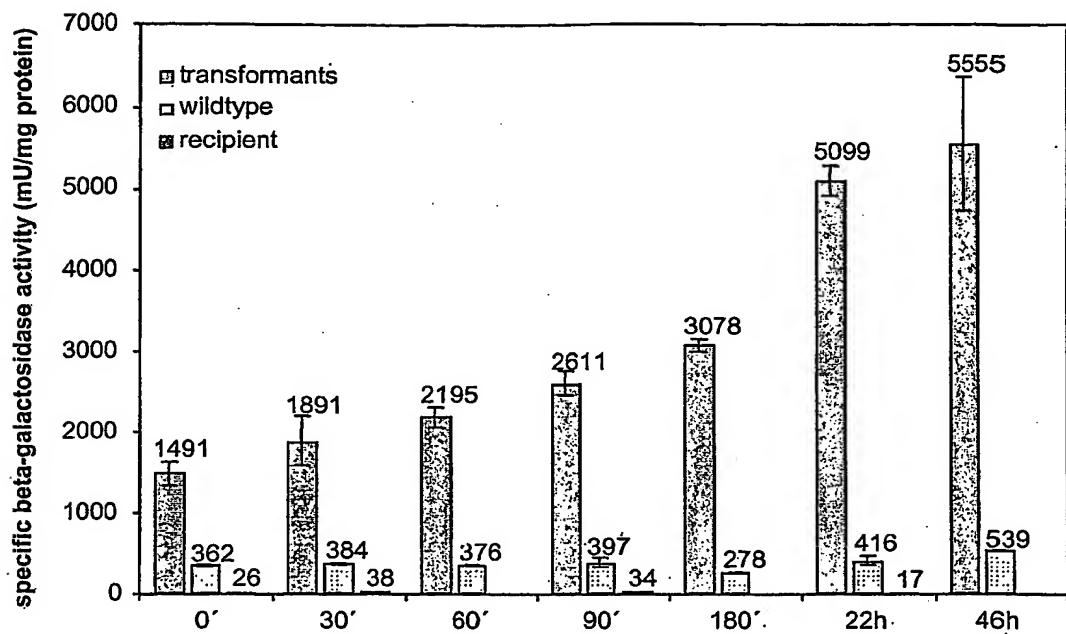
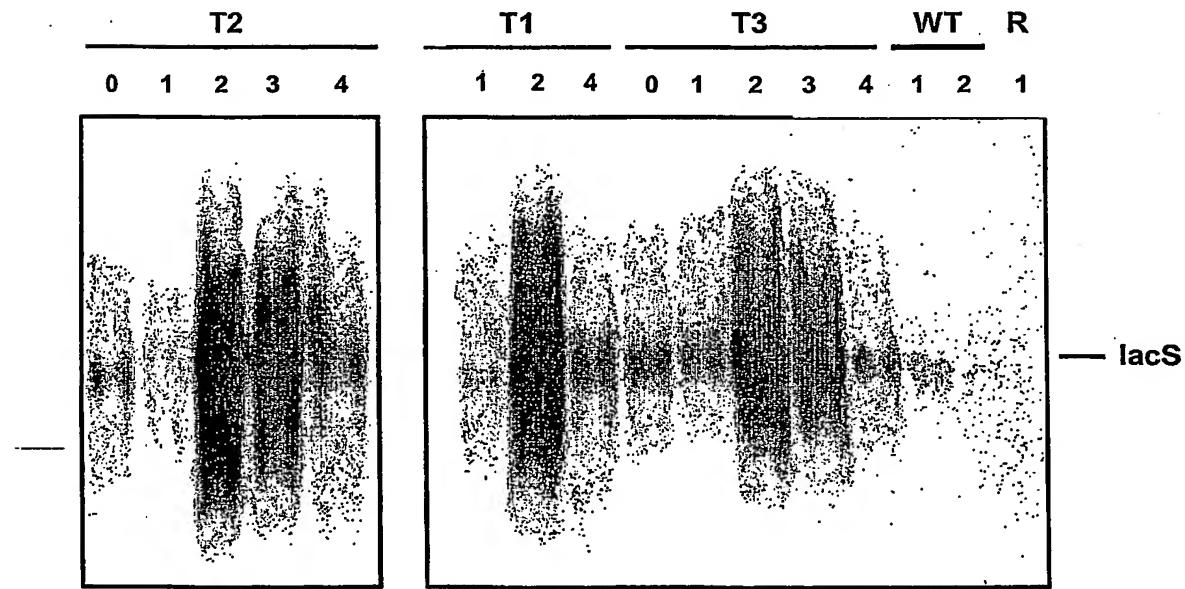


Figure 5



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Figure 6

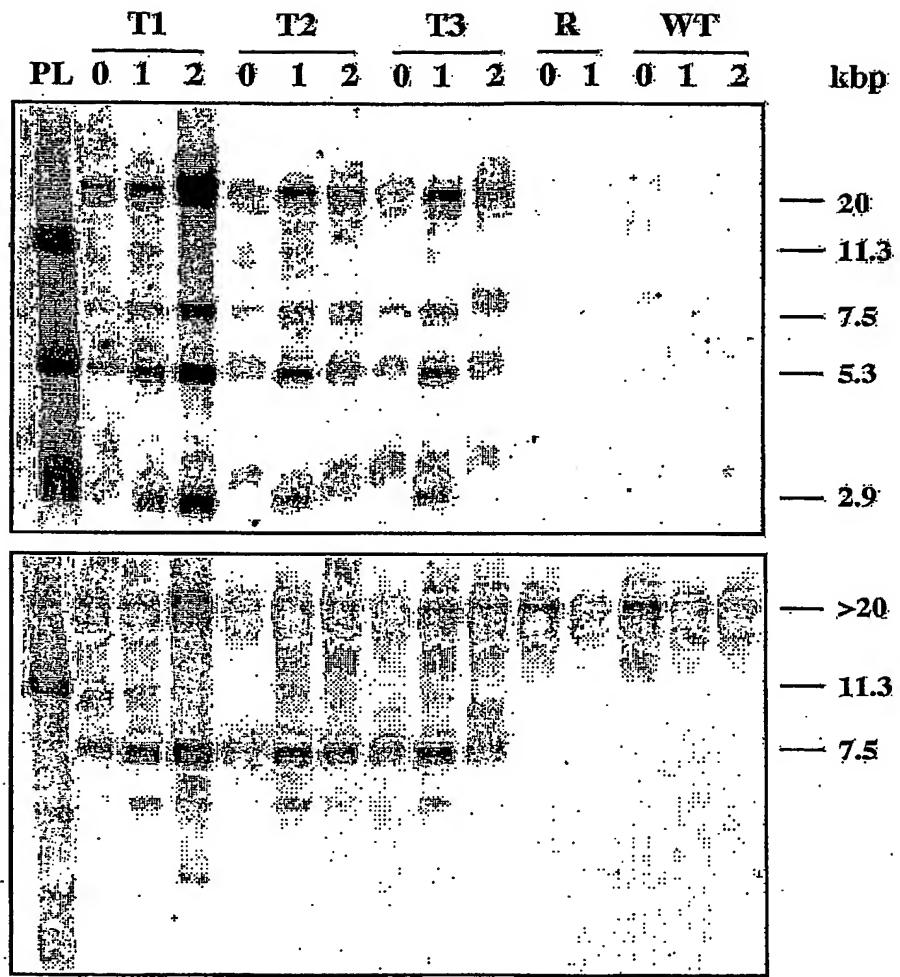


Figure 7a

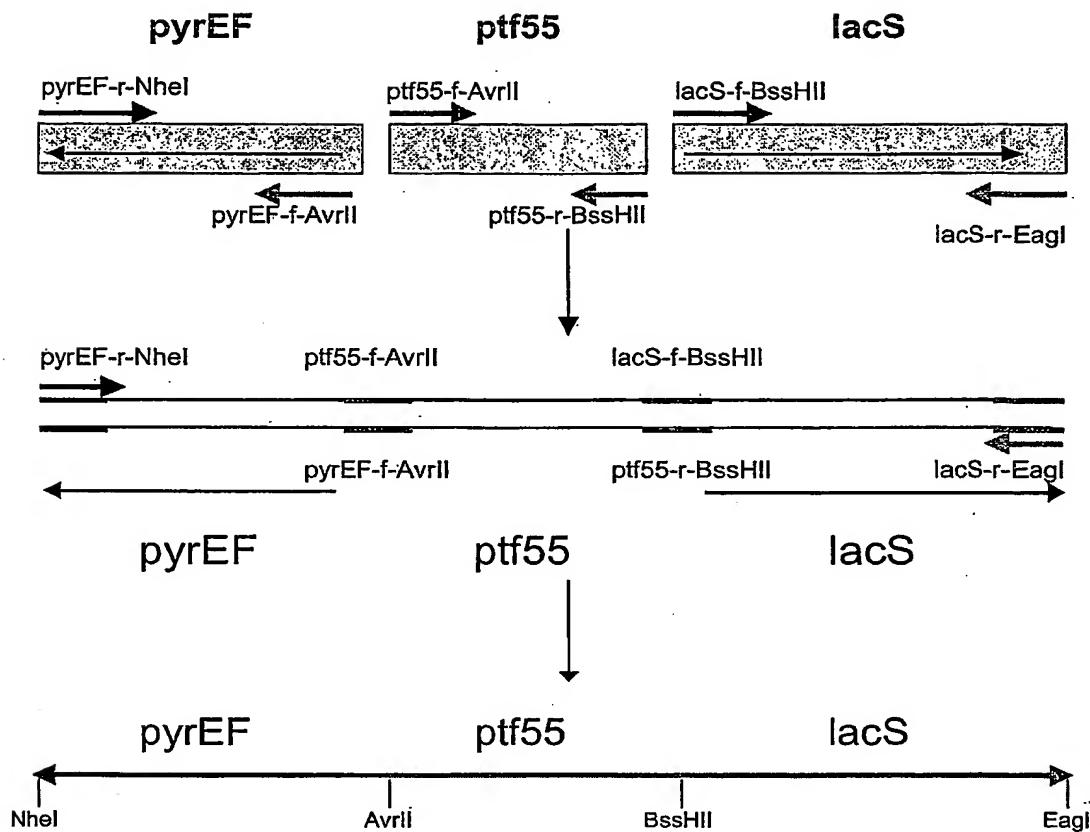
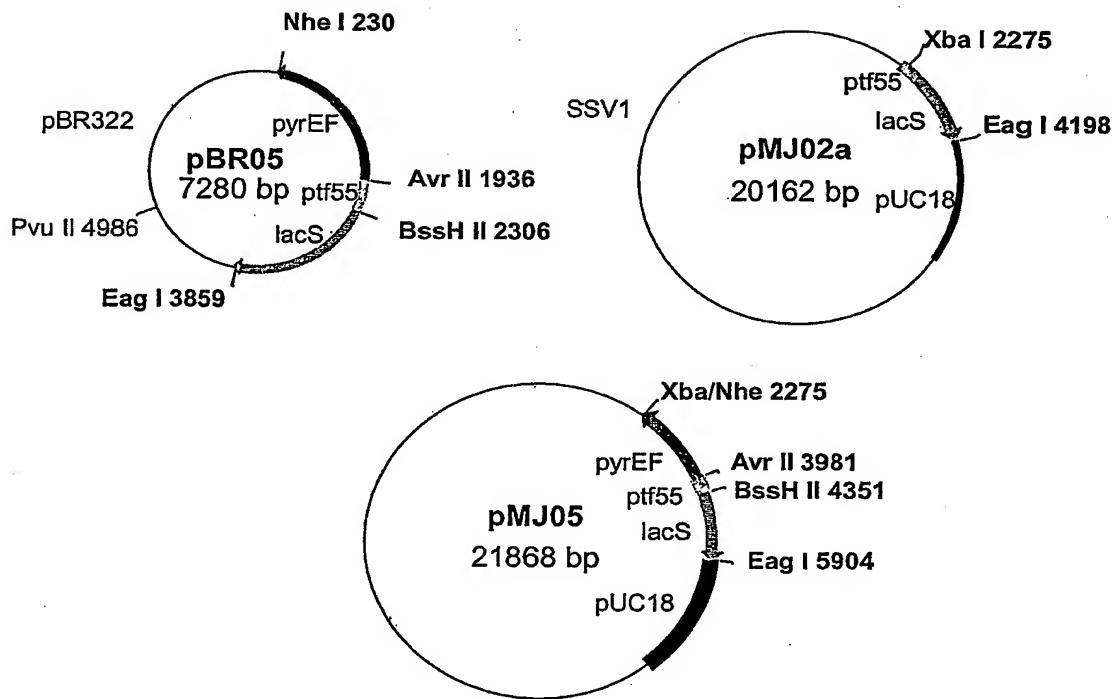


Figure 7b



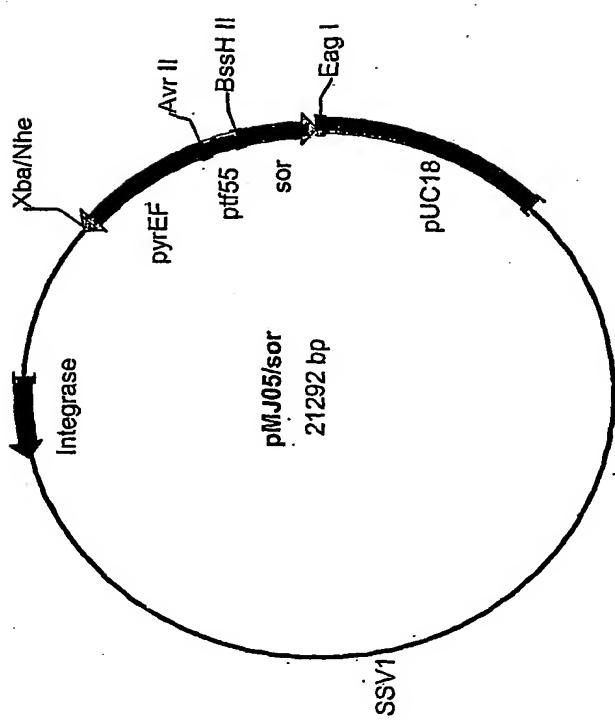
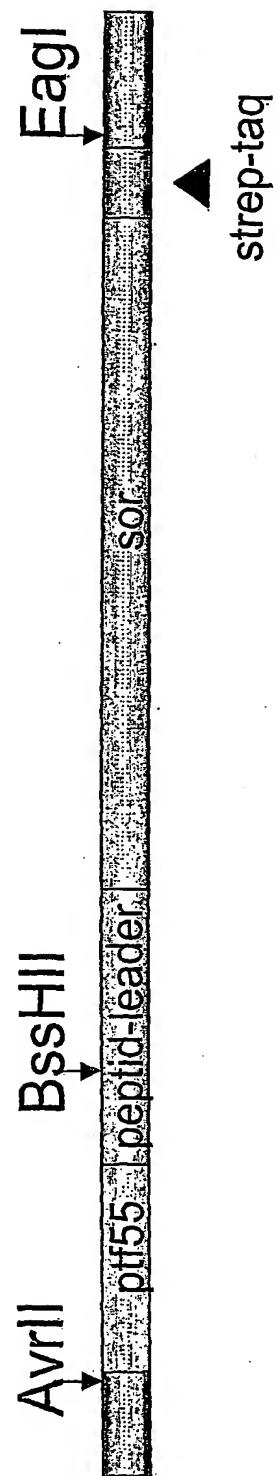
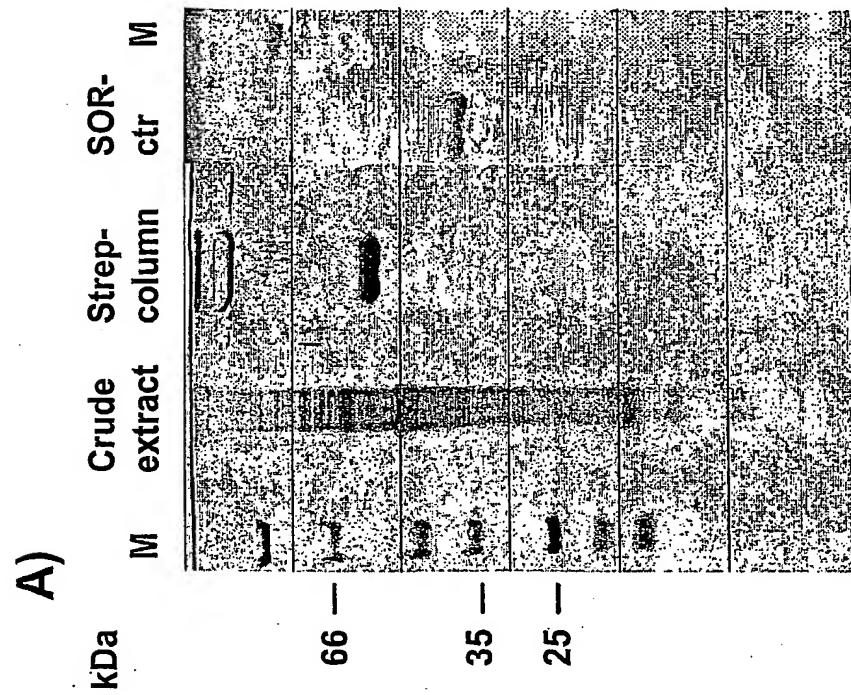


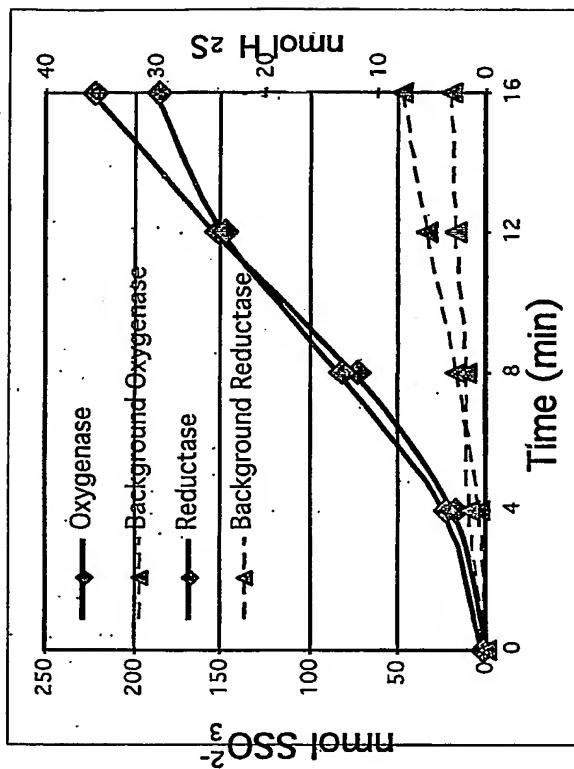
Fig. 8a:



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**Fig 8b:** A) SDS-PAGE of sor purification  
B) Activity plot oxygenase/reductase



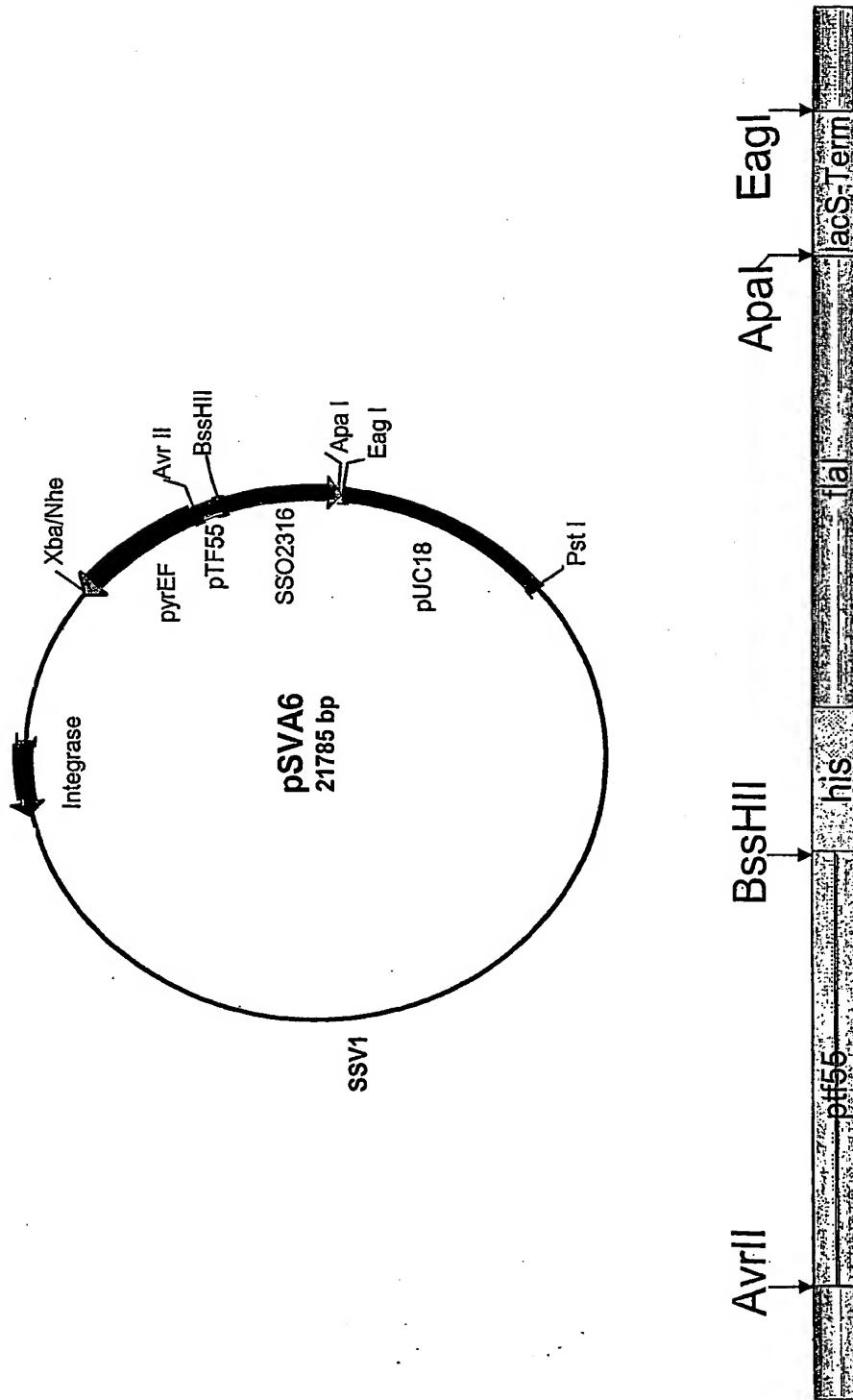


Fig. 9: E.coli / Sulfolobus shuttle vector pSVA6

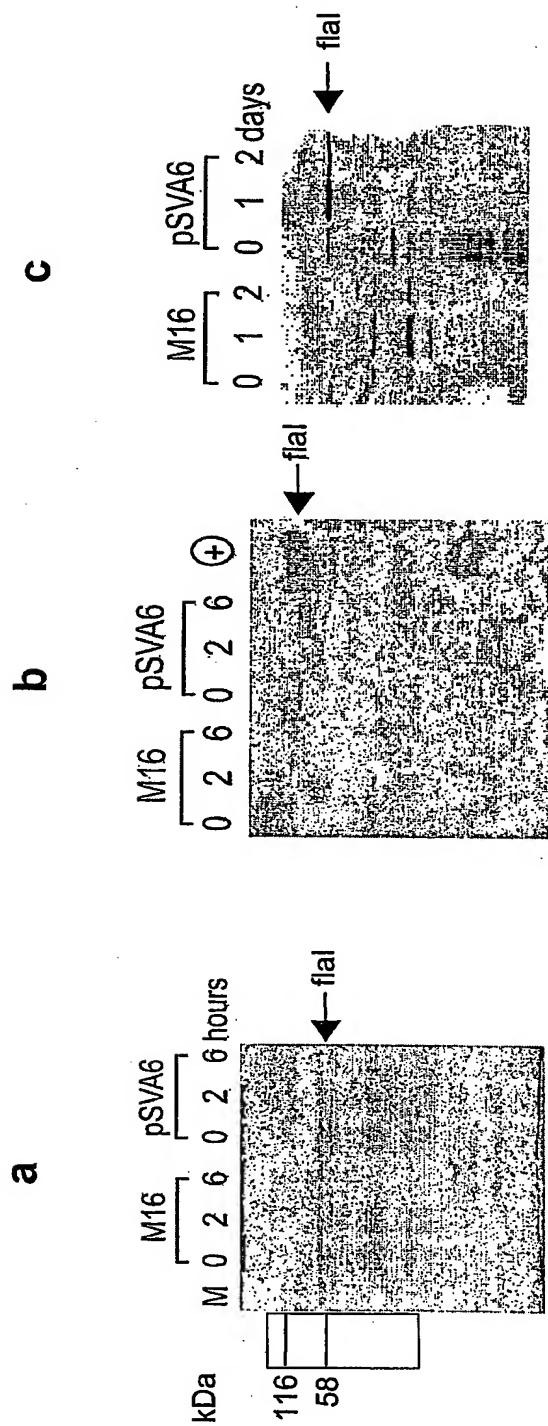


Fig. 10: Expression of flal and western blot analysis

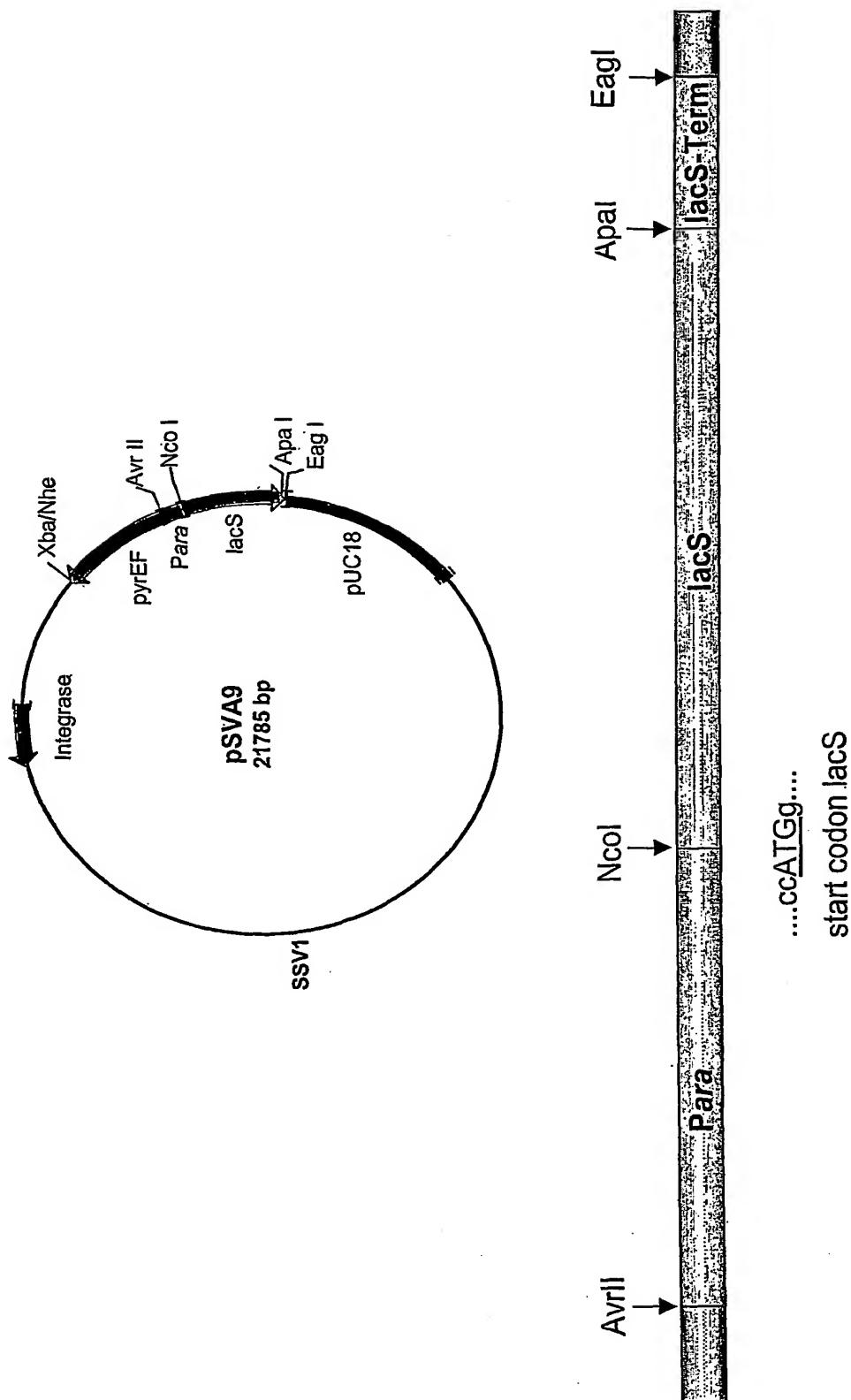


Fig. 11: Expression vector pSVA9 containing the *S. solfataricus* arabinose promoter

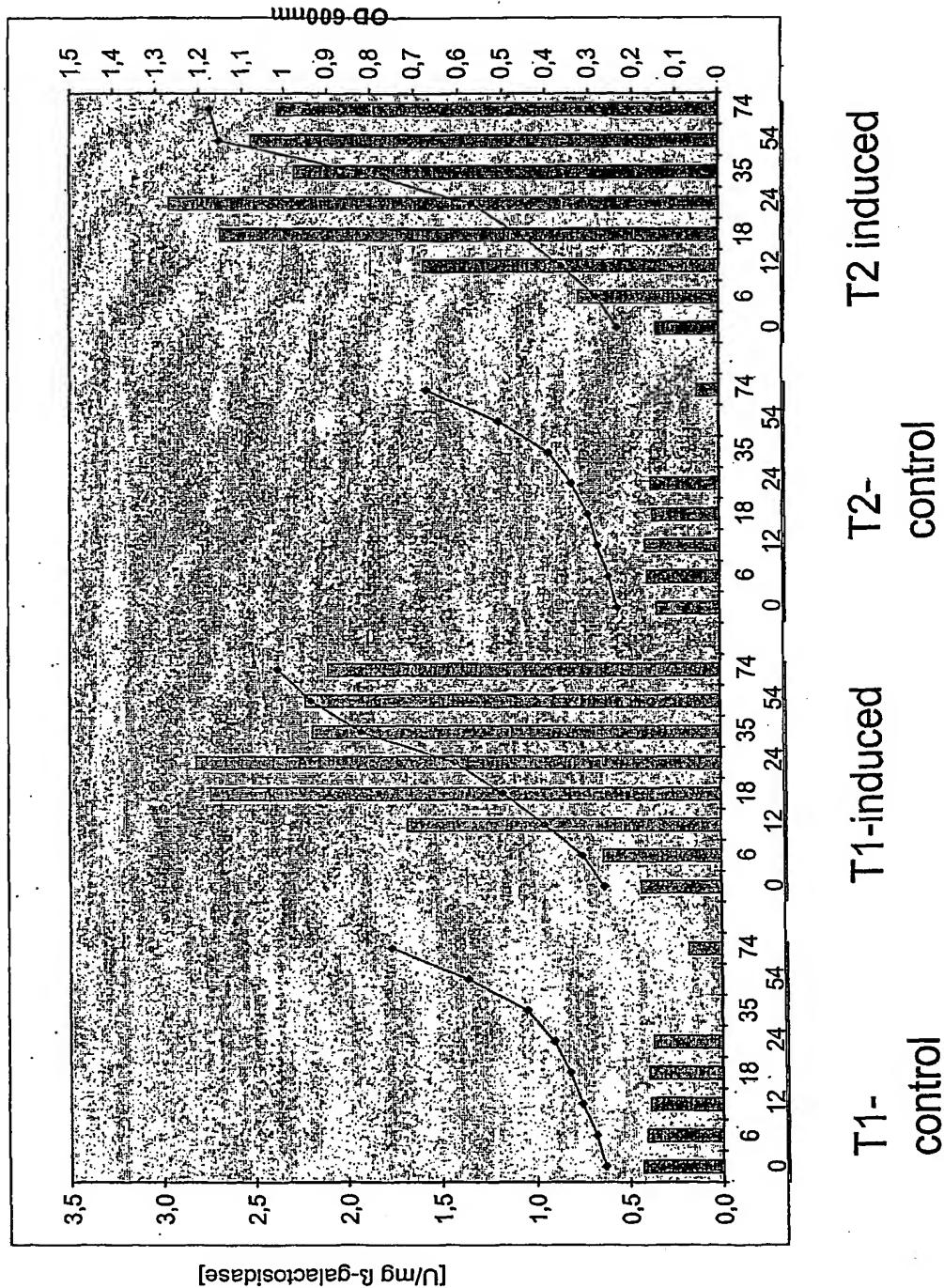
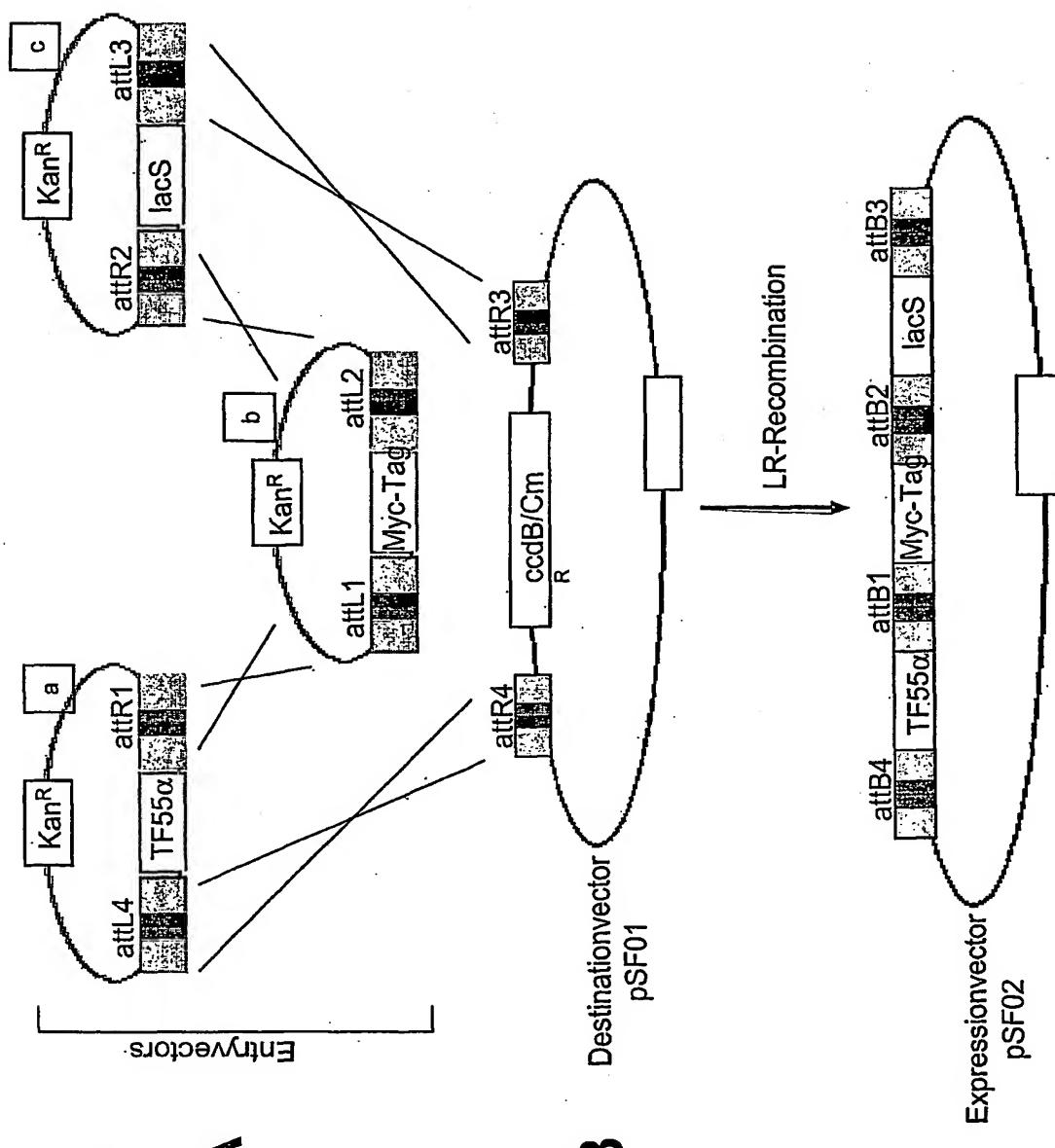
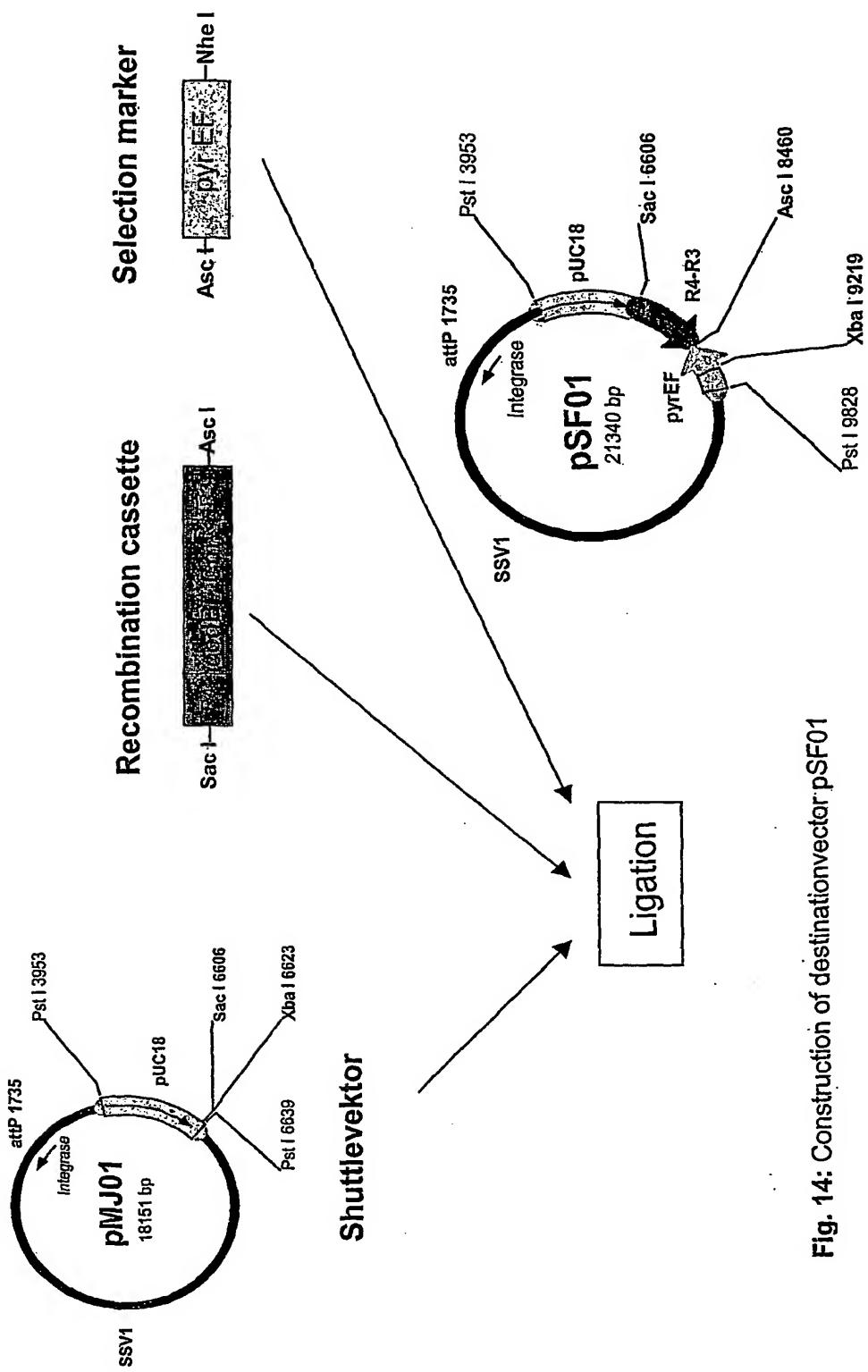
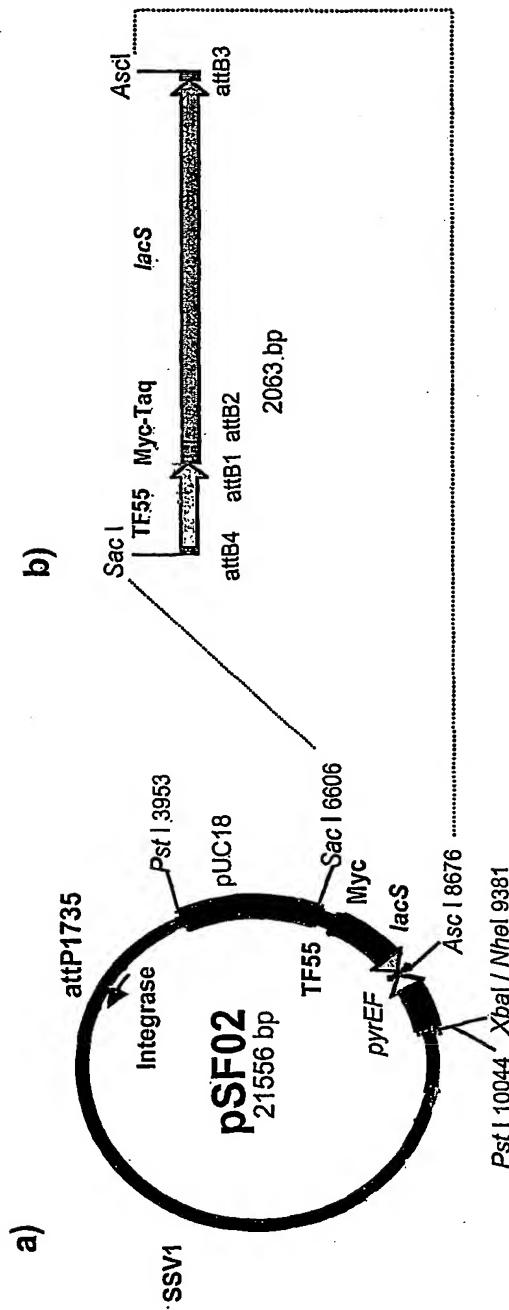


Fig. 12: Activity panel of pSVA9 transformants under induced and non-induced (control-) conditions





**Fig. 14:** Construction of destinationvector pSF01



**Fig. 15: a) Expression-Shuttlevektor pSF02;**  
**b) detailed drawing of expressioncassette**

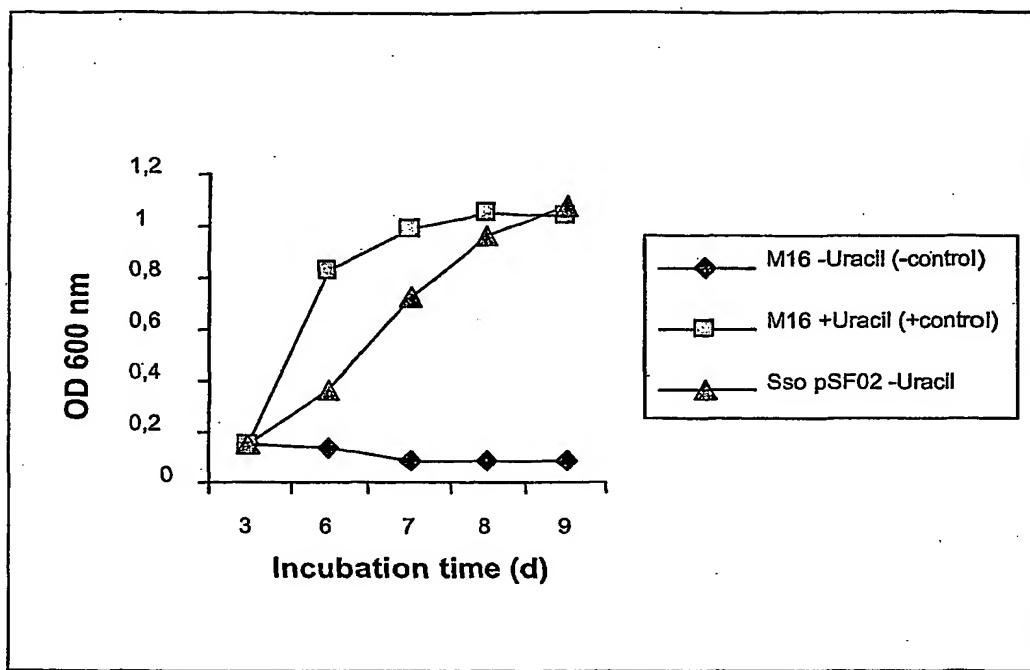


Fig. 16: Growth curve of *Sulfolobus solfataricus* pSF02 in selection medium (- Uracil)

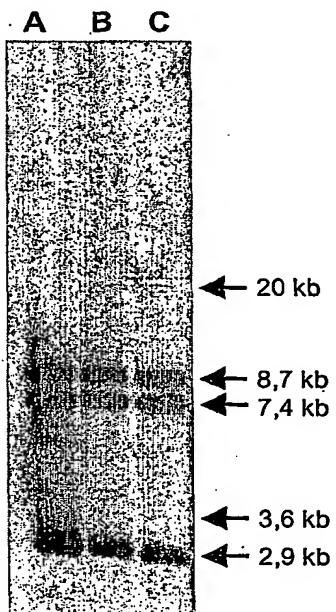


Fig. 17:  
Southern-Blot-analysis of *S. solfataricus* pSF02  
A) pSF02 control DNA  
B) *S. solfataricus* pSF02 clone 1 (total DNA)  
C) *S. solfataricus* pSF02 clone 2 (total DNA)